# Service Schematics

## Introduction

NOKIA 6030

RM-225

**Important:**

**This document is intended for use by authorized service centers only.**

"Service Schematics" was created with focus on customer care.
The purpose of this document is to provide further technical repair information for NOKIA mobile phones on Level 3/4 service activities.
It contains additional information such as e.g. "Component finder", "Frequency band table" or "Antenna switch table".
The "Signal overview" page gives a good and fast overview about the most important signals and voltages on board.
Saving process time and improving the repair quality is the aim of this document.
It is to be used additionaly to the service manual and other training or service information such as Service Bulletins.

All measurements were made using following equipment:

| | | |
|---|---|---|
| Nokia repair SW | : | Phoenix version 2006.20.9.148 |
| Oscilloscope | : | Fluke PM 3380A/B |
| Spectrum Analyzer | : | Advanced R3162 with an analog probe |
| RF-Generator/GSM Tester | : | Rhode & Schwarz CMU 200 |
| Multimeter | : | Fluke 73 Series II |

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While every endeavour has been made to ensure the accuracy of this document, some errors may exist. If the reader finds any errors, NOKIA shall be notified in writing.


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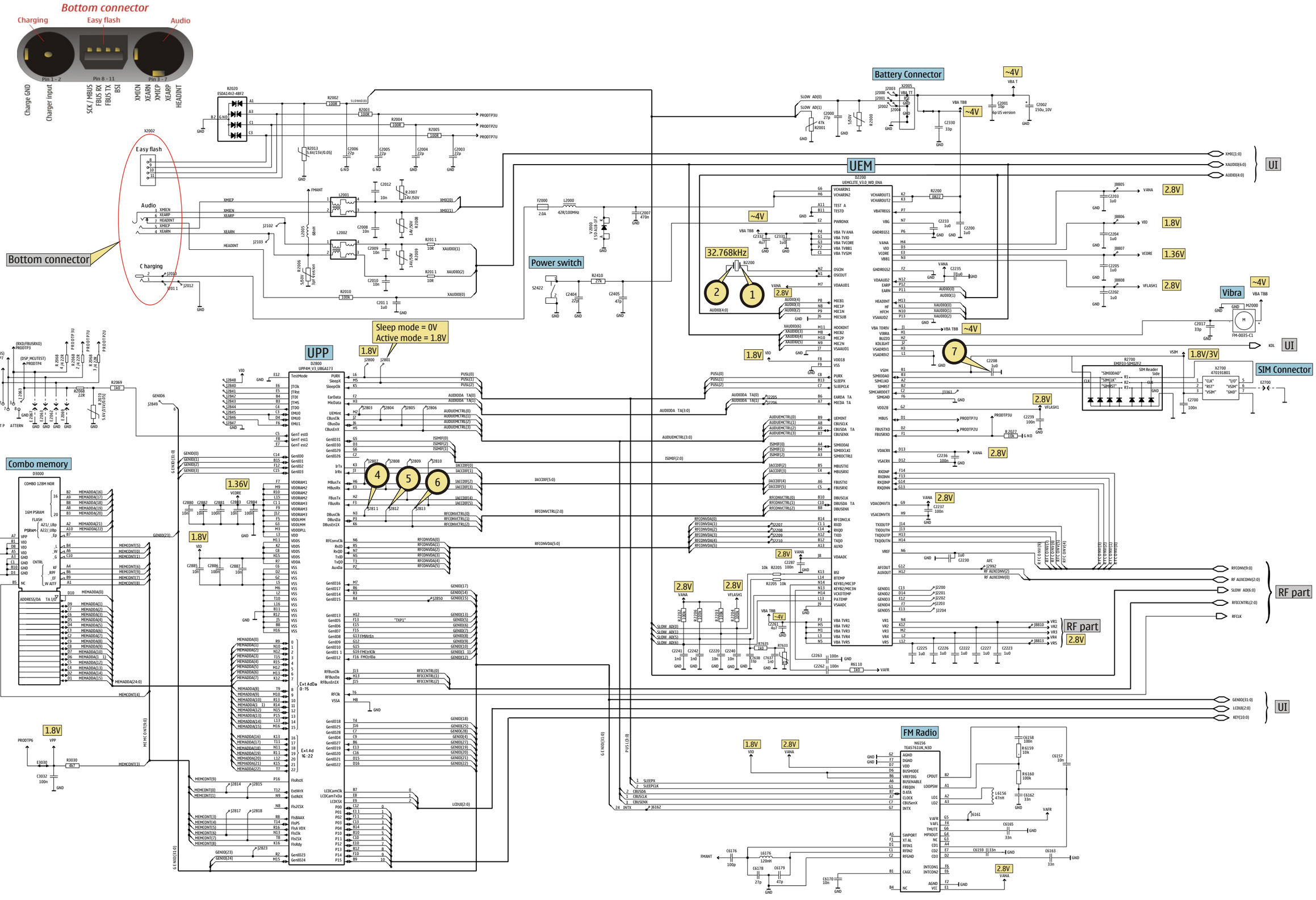
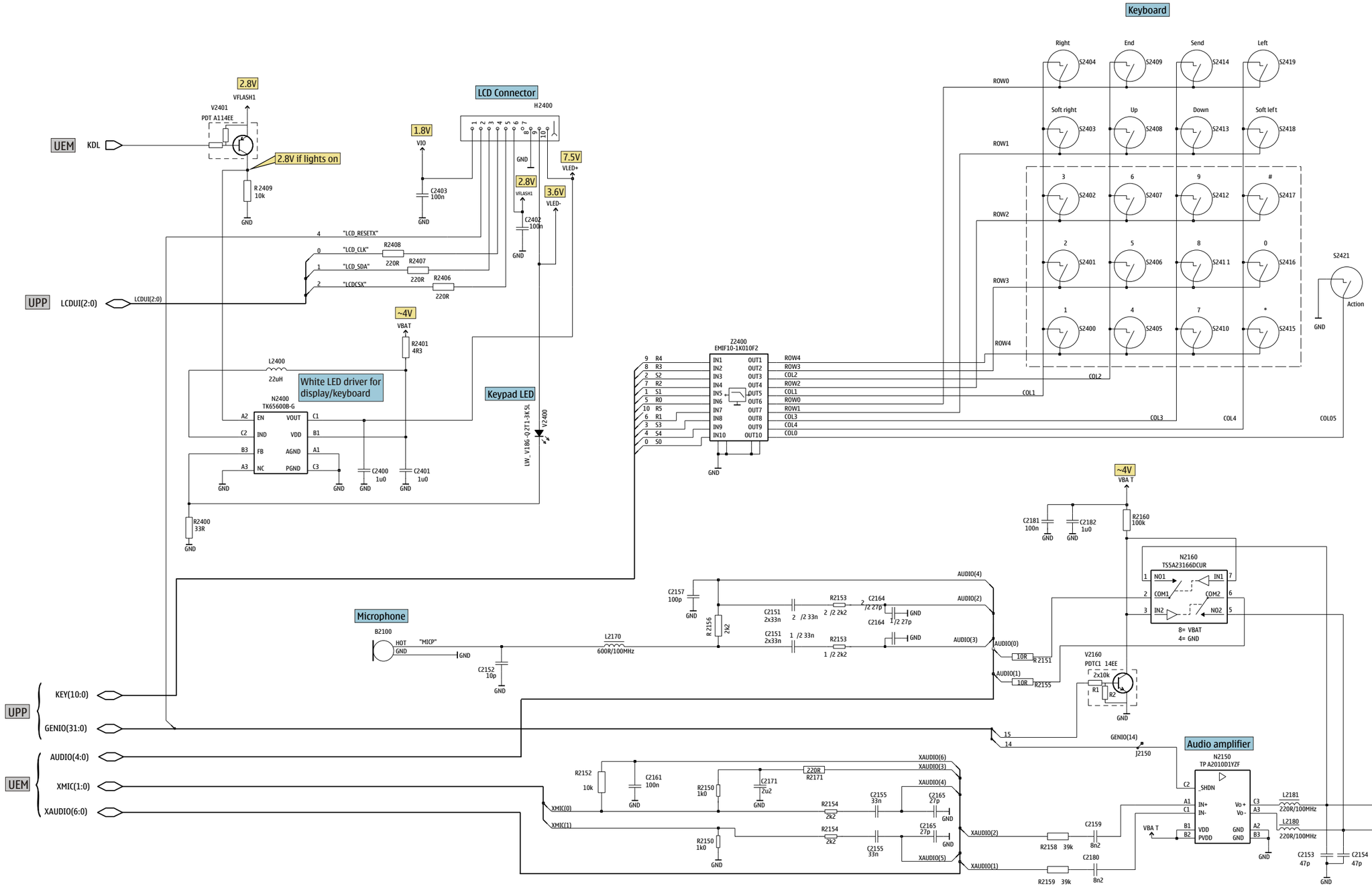
Please send E-Mail to: **training.sace@nokia.com**


Bottom connector
Charging
Easy flash
Audio
Pin 1 - 2
Pin 8 - 11
Pin 3 - 7
Charge GND
Charger input
SCK / MBUS
FBUS RX
FBUS TX
BSI
XMICN
XEARN
XMICP
XEARP
HEADINT
Battery Connector
UEM
UI
Power switch
32.768kHz
Vibra
SIM Connector
UPP
Sleep mode = 0V
Active mode = 1.8V
Combo memory
RF part
FM Radio
~4V
1.8V
2.8V
1.36V
VBA TBB
VANA
VIO
VCORE
VFLASH1
VSIM
VAFR
KDL
GENIO(31:0)
LCDUI(2:0)
KEY(10:0)
RFCONV(9:0)
RF AUXCONV(2:0)
SLOW AD(6:0)
RFCONTRL(2:0)
RFCLK
XMIC(1:0)
XAUDIO(6:0)
AUDIO(4:0)



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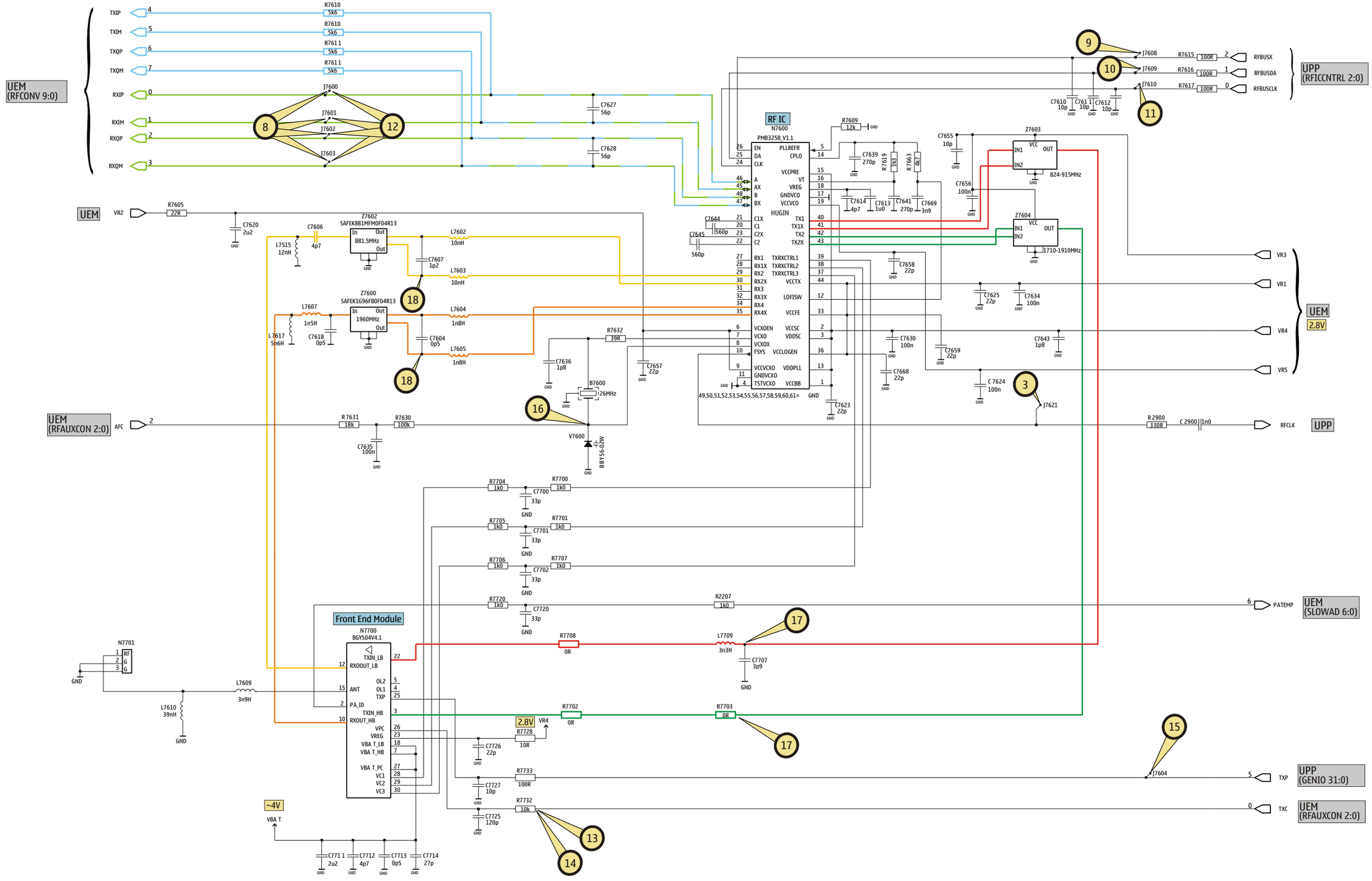




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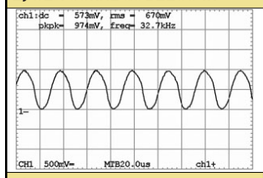
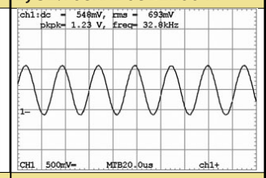
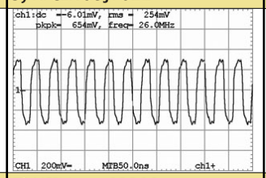
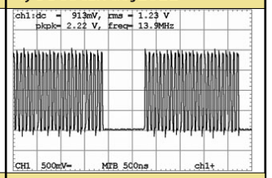
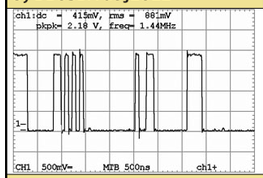
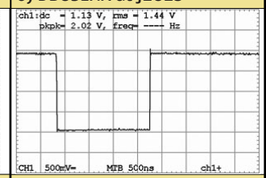
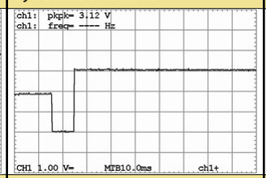
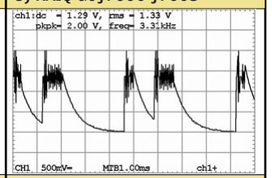
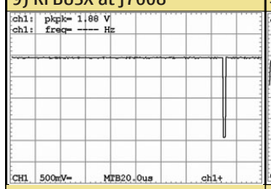
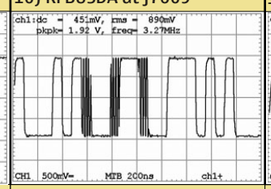
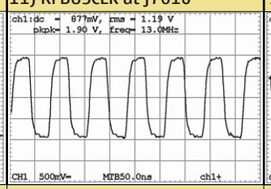
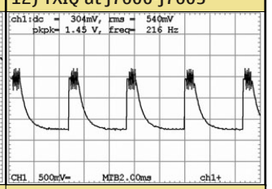
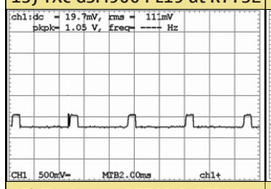
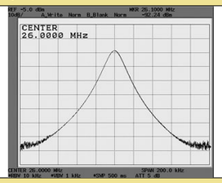
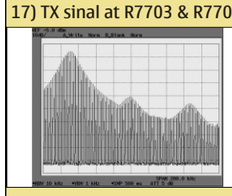
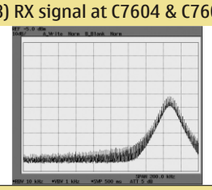
| 1) 32.768kHz at B2200 in | 2) 32.768kHz at B2200 in | 3) RFCLK at J7621 | 4) DBUSCLK at J2811 |
|---|---|---|---|
|  |  |  |  |
| **5) DBUSDA at J2812** | **6) DBUSENX at J2813** | **7) VSIM at C2208** | **8) RXIQ at J7600-J7603** |
|  |  |  |  |
| **9) RFBUSX at J7608** | **10) RFBUSDA at J7609** | **11) RFBUSCLK at J7610** | **12) TXIQ at J7600-J7603** |
|  |  |  |  |
| **13) TXC GSM900 PL19 at R7732** | **14) TXC GSM900 PL5 at R7732** | **15) TXP at J7604** | **16) 26MHz at B7600** |
|  | | |  |
| **17) TX sinal at R7703 & R7709** | **18) RX signal at C7604 & C7607** | | |
|  |  | | |
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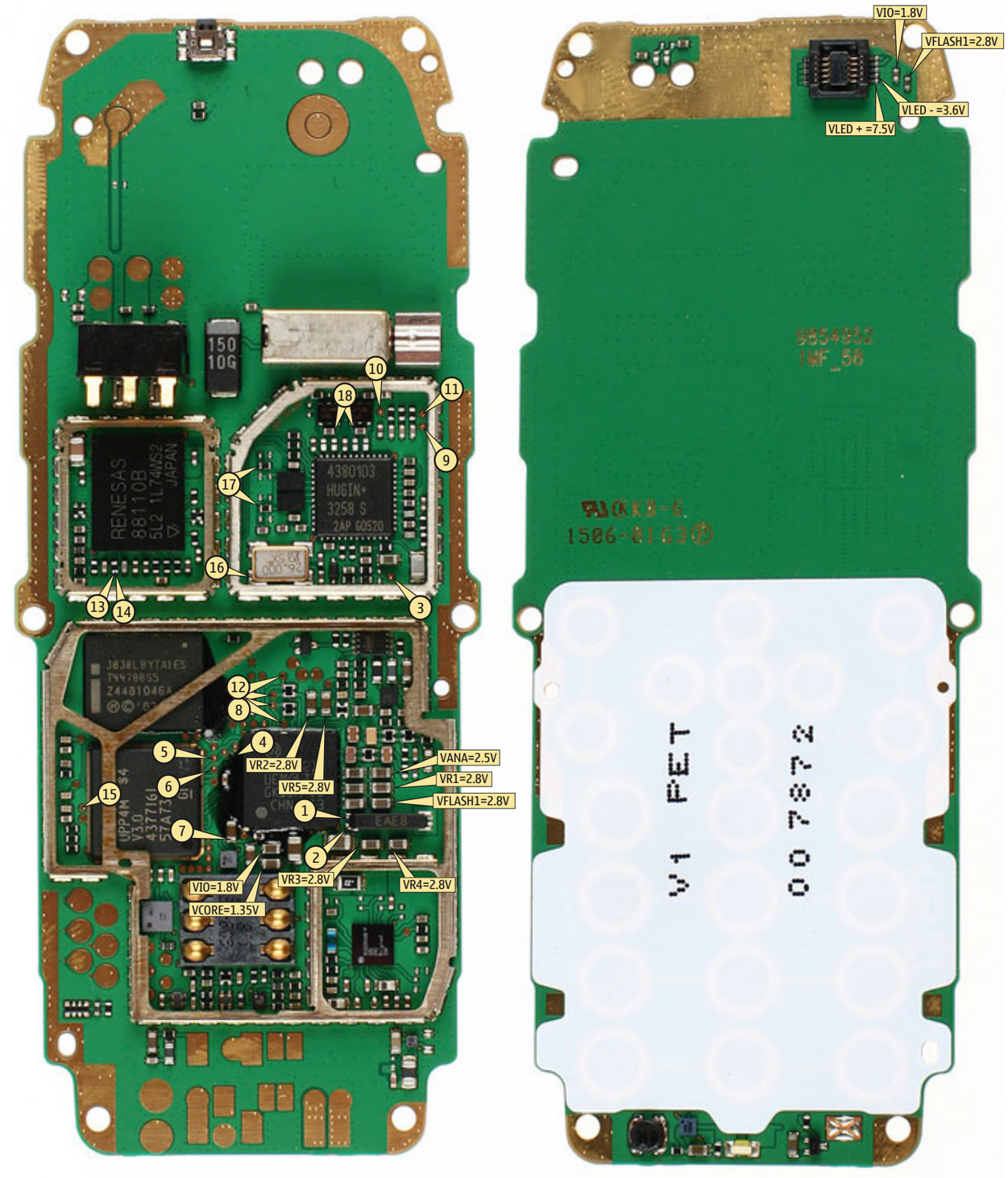
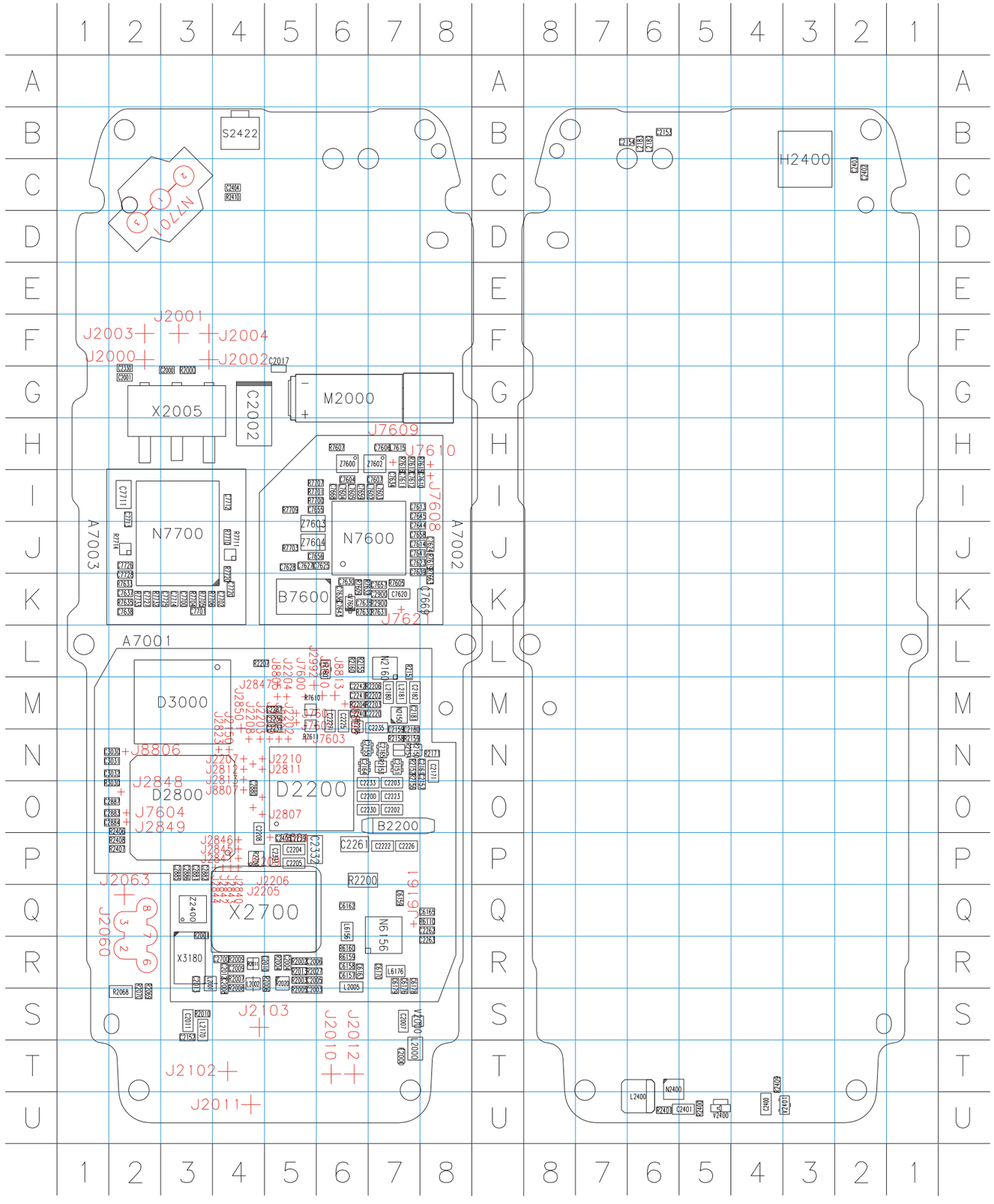


| B | | C2242 | M6 | C7635 | K6 | L7615 | H7 | R2410 | C4 |
|---|---|---|---|---|---|---|---|---|---|
| B2200 | O7 | C2261 | P6 | C7636 | K6 | M | | R2700 | P4 |
| B7600 | K5 | C2262 | Q8 | C7637 | K2 | M2000 | G6 | R2900 | K7 |
| C | | C2263 | R8 | C7638 | K2 | N | | R3030 | O2 |
| C2000 | G3 | C2287 | M5 | C7639 | J7 | N2150 | M7 | R6110 | Q8 |
| C2001 | G2 | C2330 | G2 | C7641 | J7 | N2160 | L7 | R6159 | R6 |
| C2002 | G4 | C2331 | P5 | C7643 | K6 | N2400 | T6 | R6160 | R6 |
| C2003 | S5 | C2332 | P5 | C7644 | J7 | N6156 | Q7 | R7605 | K7 |
| C2004 | R5 | C2400 | U4 | C7645 | I7 | N7600 | J7 | R7607 | H6 |
| C2005 | R5 | C2401 | U5 | C7655 | I5 | N7700 | J3 | R7609 | K6 |
| C2006 | R5 | C2402 | C2 | C7656 | J5 | R | | R7610 | M5 |
| C2007 | S7 | C2403 | C2 | C7657 | K7 | R2000 | G3 | R7611 | M5 |
| C2008 | R4 | C2404 | C4 | C7658 | J7 | R2001 | Q3 | R7615 | H8 |
| C2009 | R4 | C2405 | P5 | C7659 | I6 | R2002 | R5 | R7616 | H7 |
| C2010 | R5 | C2700 | R4 | C7668 | I6 | R2003 | R5 | R7617 | H7 |
| C2011 | S3 | C2880 | O4 | C7669 | K8 | R2004 | R5 | R7619 | J8 |
| C2012 | R4 | C2881 | P3 | C7700 | K3 | R2005 | S5 | R7630 | K6 |
| C2013 | R3 | C2882 | P3 | C7701 | K3 | R2006 | R5 | R7631 | K7 |
| C2017 | G5 | C2883 | O2 | C7702 | K4 | R2007 | R4 | R7632 | K6 |
| C2151 | N7 | C2884 | O2 | C7711 | I2 | R2008 | S4 | R7633 | K2 |
| C2152 | S3 | C2885 | P3 | C7712 | I4 | R2009 | R4 | R7635 | K2 |
| C2153 | B6 | C2886 | P3 | C7713 | I2 | R2010 | S3 | R7663 | K8 |
| C2154 | B7 | C2887 | O2 | C7714 | K3 | R2011 | R4 | R7700 | I5 |
| C2155 | N6 | C2900 | K7 | C7720 | K4 | R2013 | R5 | R7701 | I5 |
| C2157 | O8 | C3030 | N2 | C7725 | K3 | R2020 | R5 | R7703 | J5 |
| C2159 | N7 | C3031 | N2 | C7726 | J2 | R2027 | R5 | R7704 | K3 |
| C2161 | N8 | C3032 | N2 | C7727 | K2 | R2068 | S2 | R7705 | K3 |
| C2164 | N6 | C6157 | R6 | C7728 | K2 | R2069 | S2 | R7706 | K3 |
| C2165 | N7 | C6158 | R6 | D | | R2070 | S2 | R7707 | I5 |
| C2171 | N8 | C6159 | Q7 | D2200 | O5 | R2150 | N7 | R7709 | I5 |
| C2180 | N7 | C6162 | Q6 | D2800 | O3 | R2151 | L7 | R7710 | J4 |
| C2181 | M7 | C6163 | R6 | D3000 | M3 | R2152 | N7 | R7711 | J4 |
| C2182 | M7 | C6165 | Q8 | F | | R2153 | N7 | R7714 | J2 |
| C2200 | O7 | C6170 | R7 | F2000 | T7 | R2154 | N7 | R7720 | K4 |
| C2202 | O7 | C6176 | R7 | H | | R2155 | L6 | R7732 | K2 |
| C2203 | O7 | C6178 | R7 | H2400 | C3 | R2156 | O7 | R7733 | K2 |
| C2204 | P5 | C6179 | R7 | L | | R2158 | N7 | S | |
| C2205 | P5 | C7604 | I6 | L2000 | T7 | R2159 | N7 | S2422 | B4 |
| C2208 | P4 | C7606 | H7 | L2001 | R3 | R2160 | L6 | V | |
| C2220 | M7 | C7607 | I7 | L2002 | R4 | R2171 | N8 | V2000 | S7 |
| C2222 | P7 | C7610 | I8 | L2005 | R6 | R2200 | P6 | V2160 | L6 |
| C2223 | O7 | C7611 | I7 | L2170 | S3 | R2202 | M7 | V2400 | U5 |
| C2225 | M6 | C7612 | I7 | L2180 | M7 | R2203 | M7 | V2401 | U3 |
| C2226 | P7 | C7613 | I7 | L2181 | M7 | R2204 | M6 | V7600 | K6 |
| C2227 | M6 | C7614 | J7 | L2182 | B6 | R2205 | M6 | X | |
| C2230 | O7 | C7620 | K7 | L2183 | B6 | R2206 | M7 | X2005 | G3 |
| C2233 | O7 | C7623 | J7 | L2400 | U6 | R2207 | L4 | X2700 | Q4 |
| C2235 | M7 | C7624 | J8 | L6156 | Q6 | R2400 | U5 | Z2400 | Q3 |
| C2236 | M5 | C7625 | J6 | L6176 | R7 | R2401 | U6 | Z7600 | H6 |
| C2237 | M5 | C7627 | J5 | L7602 | I7 | R2406 | O2 | Z7602 | H7 |
| C2239 | P5 | C7628 | J5 | L7603 | I7 | R2407 | P2 | Z7603 | J5 |
| C2240 | M6 | C7630 | K6 | L7604 | I6 | R2408 | P2 | Z7604 | J5 |
| C2241 | M6 | C7634 | I7 | L7605 | I6 | R2409 | T4 | | |



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